

## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A method of determining acceleration of a motor vehicle, the method comprising--:--

obtaining by measurement a first signal representing vehicle speed,  
differentiating the first signal with respect to time, and low pass filtering the first  
signal to provide a first filtered acceleration signal;

obtaining a second filtered acceleration signal by calculating a net driving force  
acting on the vehicle, calculating an estimated vehicle acceleration from the net  
driving force, and [[a]] high pass filtering the estimated vehicle acceleration; ~~filtered~~  
~~acceleration signal and a low pass filtered acceleration signal, one of the filtered~~  
~~acceleration signals being obtained based upon net driving force applied to the~~  
~~vehicle and the other being obtained by measurement, and~~

adding the ~~two filtered~~ first and second filtered acceleration signals to obtain an output signal representing vehicle acceleration.

2-3. (Canceled)

4. (Currently amended) [[A]] The method as claimed in claim [[3]] 1 wherein net  
driving force is obtained by subtracting vehicle braking force from driving force  
applied through driven vehicle wheels.

5. (Currently amended) [[A]] The method as claimed in claim [[3]] 1 wherein net driving force is supplied to an adaptive vehicle model to obtain an estimate of vehicle acceleration.

6. (Currently amended) [[A]] The method as claimed in claim 5 wherein net driving force is high pass filtered before being supplied to the adaptive model.

7. (Currently amended) [[A]] The method as claimed in claim 1 wherein the high pass filtering is carried out by low pass filtering and ~~adding~~ subtracting the low pass filtered signal from the ~~and unfiltered signals together~~.

8. (Currently amended) A device for determining acceleration of a motor vehicle, the device comprising--:--

a microprocessor configured to

receive a first signal representing measured vehicle speed, differentiate the first signal with respect to time, and cause the first signal to be low pass filtered to provide a first filtered acceleration signal,

calculate a second filtered acceleration signal by calculating a net driving force acting on the vehicle, calculating an estimated vehicle acceleration from the net driving force, and means for obtaining a high pass filtering the estimated vehicle acceleration, and

~~filtered acceleration signal, means for obtaining a low pass filtered signal, one of the filtered acceleration signals being obtained on the basis of net~~

~~driving force applied to the vehicle and the other being obtained by~~  
~~measurement, and adding~~ add the ~~two~~ first and second filtered acceleration  
signals to obtain an output signal representing vehicle acceleration.

9-10. (Canceled)